

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20221 www.usplo.gov

DATE MAILED: 04/09/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/772,628	01/30/2001	Akihiro Iino	S004-4198	9945
	590 04/09/2003			
ADAMS & WILKS 50 Broadway, 31st Floor New York, NY 10004			EXAMINER	
			BUDD, MARK OSBORNE	
	•		ART UNIT	PAPER NUMBER
			2834	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
(s 1 %)	09/772,628	IINO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mark Budd	2834			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period with the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTA	be timely filed D) days will be considered timely. From the mailing date of this communication.			
1) Responsive to communication(s) filed on <u>13 J</u>	anuary 2003 .				
2a)⊠ This action is FINAL . 2b)⊡ Thi	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-3,6-9.11.12.14-27.29-39and 41-43,</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) <u>1-3,6-9,11,12,15,18-27,29-36,38,39 and 41-43</u> is/are allowed.					
6)⊠ Claim(s) <u>14,16,17 and 37</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) \square The proposed drawing correction filed on is: a) \square approved b) \square disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 					
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)			

Application/Control Number: 09/772,628

Art Unit: 2834

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Ashizawa (846), Tawagi or Japan (359) in view of Okazaki (899) Narisawa or Izukawa.

Each of Ashizawa (fig. 22, 23), Takagi (Fig. 1-3 and 5-7) and Japan (359) (Figs. 1-3, 5 and 6) teach the ultrasonic motor structure but don't explicitly show the polarization directions. However, each of Okazaki (fig. 4c) and Narisawa (Fig. 8, 10, 11 & 16) teach the piezo elements teach the piezo elements should all have the same poling direction. Izakawa (note figs. 9 &10) shows the relationship between poling direction and the polarity of the applied signal used to drive a piezo element. Thus in light of these teachings it would have been obvious to one of ordinary skill in the art to use same poled regions in Ashizawa, Takagi or Japan (259) to obtain the vibrations used to move the rotor.

Claim 37 is rejected under 35 USC 102 as being anticipated by Ashizawa. Note #34(a), #34(b) support the vibrator along the N3 node, while e.g. #36a, #36b support along the N1 and N5 nodal lines.

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Application/Control Number: 09/772,628

Art Unit: 2834

Page 3

The claim is vague and indefinite in that it appears to contradict itself by both allowing rotation while can currently rotation. How is this possible? There is no described structure cited to allow both conflicting conditions.

Claim 17 as understood is rejected under 35 USC 102 as anticipated by Kuwabara (figs. 1 & 4) or Kawata (figs. 1-4 & 7).

Claims 1-3, 6-9, 11, 12, 15, 18-27, 29-36, 38, 39 and 41-43 are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Budd/ds

04/03/03

MARK S. BUDD RIMARY EXAMINER ART UNIT 212